If you are familiar with the BayStack Console Interface (CI), use the following table to locate the Optivity NCS properties that you want to configure.

Mapping Switch Console Interface commands to Optivity NCS GUI properties

To configure the properties on this CI Screen...	Select this item in the Optivity NCS navigation pane...	... and choose this Properties tab
IP Configuration/Setup	Switch	Basic
SNMP Configuration	Switch > SNMP	Basic
System Characteristics	Switch	Import/Export
Switch Configuration > VLAN Configuration menu > VLAN Configuration	Switch > VLANs folder > VLAN	Basic
Switch Configuration > VLAN Configuration menu > VLAN Port Configuration	Switch > port member of VLAN	VLAN
Switch Configuration > VLAN Configuration menu > VLAN Display by Port	VLANs folder > VLAN	Basic
Switch Configuration > Port Configuration	Switch > port	Basic
Switch Configuration > Multilink Trunk Configuration	Switch > MLT groups > MLT	Basic
Switch Configuration > IGMP Configuration	VLAN > IGMP tab and IGMP tab on ports	Basic
Switch Configuration > IGMP > port	Switch > port	IGMP
Switch Configuration > ATM Configuration	Switch > ATM MDA port	Basic
Spanning Tree Configuration	Switch > STG Group > Spanning Tree group	Basic
Spanning Tree Configuration > port	Switch > port	STG
Software Download	Switch	Image Download Wizard

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Configuring BayStack and Business Policy Switches with the Optivity Network Configuration System

This card summarizes how to get started using the Optivity Network Configuration System (Optivity NCS) to configure the BayStack and Business Policy Switches in your network. This document is intended for network engineers who have some familiarity with Nortel Networks Layer 2 switches.

The Business Policy Switch 2000 requires Version 1.0 software. The BayStack 350, 410, and 450 switches require Versions 1.3- 3.1 software.

Task list

The following summarizes an example of the configuration tasks you can complete using Optivity NCS:

- Configure the switch IP address.
- Import or create a switch configuration.
- Add stack units and media dependent adapters (MDAs).
- Configure ports.
- Configure virtual local area networks (VLANs).
- Configure a multilink trunk (MLT).
- Configure a Simple Network Management Protocol (SNMP) trap receiver.

Each of these tasks is explained in more detail in the procedures that follow.

Configure the switch IP address

NOTE: If you have a properly configured BootP server in your network, it detects the switch IP address automatically; you do not need to configure the IP address.

1. Connect a serial console and apply power to the switch. After the Nortel Networks logo screen appears, press [Ctrl]-Y to access the Console Interface (CI).
2. At the CI Main Menu, choose IP Configuration/Setup.
3. Type the in-band IP address or stack IP address, subnet mask, and default gateway of the switch.

   Press [Return] after each entry.

   For a standalone switch, you enter the in-band IP address. For a stack configuration, you enter the stack IP address.

Import or create a switch configuration

You can import existing configurations to the Optivity NCS database directly from the switch, or you can create configurations off-line.

1. Use the Configuration menu Import commands to import configuration data directly from a switch. To import data, you specify the switch IP address and community string.

   NOTE: BayStack and Business Policy Switch devices use SNMP to transfer configuration data; they do not support Trivial File Transfer Protocol (TFTP) or serial import and export.
2. Use the Configuration Data Palette to create new standalone switch and stack configurations. The Palette lists switch templates by product group.

Add stack units and MDAs

NOTE: You can add switch units to a stack and MDAs to a unit configuration using Optivity NCS. Then, export that configuration to a stack or unit to which you added the corresponding hardware.

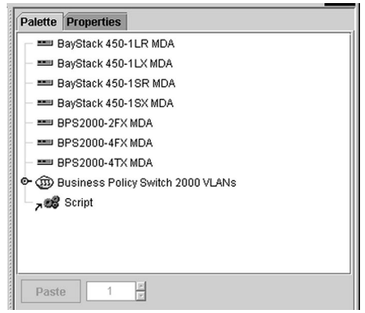
Alternatively, you can install the new unit or MDA in the stack or unit and reimport the configuration through Optivity NCS. Reimport will then discover the newly installed unit or MDA. It is recommended that you follow this latter method because it is less error-prone.

1 In the navigation pane, select the switch stack.

2 Select the unit type that is to be added to the stack from the Palette tab.

3 Click the Paste button, or double-click the unit type that is to be added to the stack.

4 Select the newly created unit in the navigation pane and adjust the unit number in the Basic tab in the Properties area.



5 Select the newly created unit in the navigation pane and then select the MDA type that is to be added to the new switch unit from the Palette tab.

6 Click the Paste button or double-click the MDA type that is to be added to the switch.

7 Expand the added unit in the navigation pane and then expand the MDA.

8 Select a port under the MDA object in the navigation pane.

9 Configure Basic, VLAN, STP, and IGMP parameters in the Properties tab as appropriate.

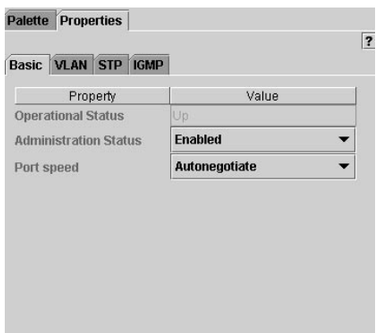
Configure ports

By default, all unconfigured ports are untagged links in the default port-based VLAN (VLAN 1), participate in normal learning STP, and autonegotiate line speed.

1 In the navigation pane, expand the standalone switch, stack unit, or MDA to select switch ports.

2 In the Properties tab, choose the Basic, VLAN, STP, or IGMP configuration tab.

NOTE: Selecting multiple ports (Ctrl-Click or Shift-Click) and then modifying parameters from the Properties tab changes those parameters for all selected ports.



Configure VLANs

You can configure port-based, protocol-based, or MAC source address VLANs.

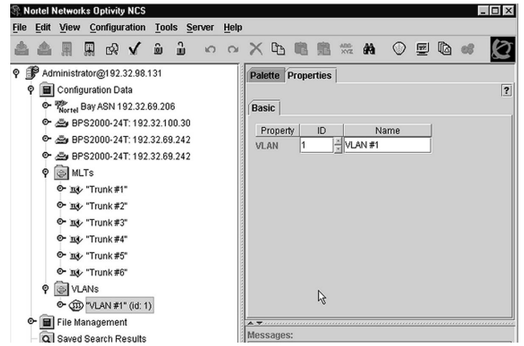
1 In the navigation pane, expand the device and select the device VLANs folder.

NOTE: Use the device VLANs folder to create VLANs and to configure VLAN ports. The system VLANs folder shows the VLANs configured on all devices in the database.

2 In the Palette tab, choose a port-based, protocol-based, or MAC source address (SA)-based VLAN type.

3 In the navigation pane, select the VLAN. In the Properties tab, type a descriptive name to identify the VLAN.

4 In the navigation pane, expand the switch and select ports to participate in the VLAN.



5 Create shortcuts from the ports to the VLAN.

Copy the ports, and paste them as shortcuts on the VLAN.

6 In the navigation pane, select the VLAN ports. In the Properties tab, configure the VLAN port properties.

Click the VLAN tab to display the VLAN port properties.

Configure an MLT

You can configure from one through six multilink trunk (MLT) groups.

1 In the navigation pane, expand the switch and select two, three, or four Ethernet ports.

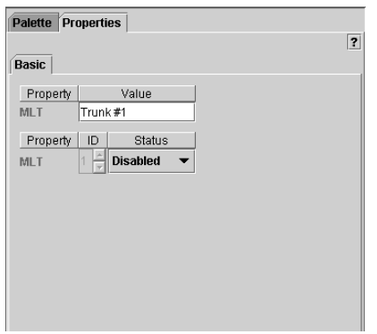
2 Create shortcuts from the ports to one of the six MLT templates.

3 Copy the ports, and then paste them as shortcuts on the MLT.

4 In the navigation pane, select the MLT.

5 In the Properties tab, type a descriptive name to identify the trunk.

6 From the Status list, choose Enabled.



Configure an SNMP trap receiver

1 In the navigation pane, expand the switch and select SNMP.

2 In the Properties tab, click the green plus sign (+) to add an item to the Trap Receivers table.

3 Enter the IP address and community string for each trap receiver.